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CLIMAX MOYLBDENUM MARKETING CORP. -- MOLYBDENUM DISULFIDE -- 6810-00-264-6715

Product ID:MOLYBDENUM DISULFIDE MSDS Date:05/05/1997 FSC:6810 NIIN:00-264-6715 Status Code:A MSDS Number: CKBQM === Responsible Party === Company Name: CLIMAX MOYLBDENUM MARKETING CORP. Address:1501 W. FOUNTAINHEAD PARKWAY Box:22015 City:TEMPE State:AZ ZIP:85285-2015 Country:US Info Pho ne Num:480-929-4400 Emergency Phone Num:480-929-4400 Chemtrec Ind/Phone:(800)424-9300 CAGE:TO494 === Contractor Identification === Company Name: CHEMICAL SPECIALISTS AND DEVELOPMENT INC Address:2210 HACKBERRY LN Box:687 City:CONROE State:TX ZIP:77305 Country:US Phone:409-756-1065 Contract Num:SP0450-00-M-D347 CAGE:4N760 Company Name: CLIMAX MOYLBDENUM MARKETING CORP. Address:1501 W. FOUNTAINHEAD PARKWAY Box:22015 City:TEMPE State:AZ ZIP:85285-2015 Country:US Phone:480-929-4400 CAGE:TO494

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===== Composition/Information on Ingredients ==========

Ingred Name:MOLYBDENUM DISULFIDE CAS:1317-33-5 RTECS #:QA4697000 &qt; Wt:99.

LD50 LC50 Mixture:ORAL LD50(RAT): UNKOWN Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:SHORT TERM EXPOSURE: MAY CAUSE IRRITATION TO SKIN AND EYES. LONG TERM EFFECTS: NO INFORMATION AVAILABLE ON SIGNIFICANT ADVERSE EFFECTS.

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First Aid:INHALATION:REMOVE FROM EXPOSURE AREA TO FRESH AIR IMMEDIATELY. IF BREATHING HAS STOPPED, PERFORM ARTIFICIAL RESPIRATION. KEEP PERSON WARM & AT REST. GET MEDICAL AID. SKIN:REMOVE CONTAMINATED CLOTHING/ SHOES IMMEDIATELY. WASH AFFECTED AREA WITH SOAP OR MILD DETERGENT & LARGE AMOUNTS OF WATER UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROX. 15-20 MINS). GET MEDICAL AID. EYE:WASH EYES IMMEDIATELY WITH L ARGE AMOUNTS OF WATER OR NORMAL

SALINE, LIFTING UPPER & LOWER LIDS, UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROX. 15-20 MINS). INGEST:KEEP HEAD LOWER THAN HIPS TO PREVENT ASPIRATION. GET MEDICAL AID IF NEEDED.

Extinguishing Media: EXTINGUISH USING AGENT SUITABLE FOR TYPE OF SURROUNDING FIRE.

Fire Fighting Procedures: FULL FIREFIGHTING TURN-OUT GEAR (BUNKER GEAR). ANY SUPPLIED-AIR RESPIRATOR WITH FULL FACEPIECE & OPE RATED IN A

PRESSURE-DEMAND OR OTHER POSITIVE-PRESSURE MODE IN COMBINATION WITH A SEPARATE ESCAPE SU PPLY. ANY SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE.

Unusual Fire/Explosion Hazard:SLIGHT FIRE HAZARD WHEN EXPOSED TO HEAT OR FLAME. NO ACUTE HAZARD. MOVE CONTAINER FROM FIRE AREA IF POSSIBLE. AVOID BREATHING VAPORS OR DUST; KEEP UPWIND.

Spill Release Procedures: FOR LARGE SPILLS, SWEEP UP WITH

A MINIMUM OF

DUSTING AND PLACE INTO SUITABLE CLEAN, DRY CONTAINERS FOR RECLAMATION OR LATER DISPOSAL. RESIDUE SHOULD BE CLEANED UP USING A HIGH-EFFICIENCY PARTICULATE F ILTER VACUUM.

Handling and Storage Precautions:OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS WHEN STORING OR DISPOSING OF THIS SUBSTANCE. STORE AWAY FROM INCOMPATIBLE SUBSTANCES.

===== Exposure Controls/Personal Protection ====

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Respiratory Protection: ANY DUST, MIST, FUME RESPIRATOR. ANY CHEMICAL CARTRIDGE RESPIRATOR WITH A DUST, MIST, FUME FILTER. ANY POWERED AIR-PURIFYING RESPIRATOR WITH A DUST, MIST, FUME FILTER. ANY TYPE 'C' SUPPLIED-AIR RESPIR ATOR WITH A FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE OR WITH A FULL FACEPIECE, HELMET OR HOOD OPERATED IN CONTINOUS-FLOW MODE. Ventilation: PROVIDE LOCAL EXHAUST VENTILATION AND/OR GENERAL DILUTION VENTILATIO

N TO MEET PUBLISHED EXPOSURE LIMITS.

Protective Gloves: PROTECTIVE GLOVES NOT REQUIRED BUT RECOMMENDED. Eye Protection: SPLASH-PROOF OR DUST-RESISTANT SAFETY GOGGLES.

Other Protective Equipment: PROVIDE AN EYE WASH FOUNTAIN WITHIN THE IMMEDIATE WORK AREA FOR EMERGENCY USE. PROTECTIVE CLOTHING NOT REQUIRED. PROTECTIVE CLOTHING NOT REQUIRED.

Work Hygienic Practices: AVOID REPEATED OR PROLONGED CONTACT WITH THIS SUBSTANCE.

Supplemental Safety and Health

RESPIRATORY PROTECTION CONTINUED: ANY

SELF-CONTAINED BREATHING

APPARATUS WITH A FULL FACE PIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE.

HCC:N1 Melt/Freeze Pt:>315.C, 599.F M.P/F.P Text:OXIDIZES Vapor Pres:APPROX. 0@20C Spec Gravity:4.80 @ 14C Solubility in Water:INSOLUBLE Appearance and Odor:ODORLESS, DARK GRAY TO BLACK POWDER.

Stability Indicator/Materials to Avoi

d:YES

HYDROGEN PEROXIDE: VIGOROUS OR VIOLENT REACTION. OXIDIZERS(STRONG): FIRE AND EXPLOSION HAZARD. POTASSIUM NITRATE: FORMS EXPLOSIVE MIXTURE.

Stability Condition to Avoid: PREVENT DISPERSION OF DUST IN AIR.

Hazardous Decomposition Products: THERMAL DECOMPOSTION MAY RELEASE TOXIC AND/OR HAZARDOUS GASES.

Conditions to Avoid Polymerization: HAZARDOUS POLYMERIZATION HAS NOT BEEN REPORTED TO OCCUR UNDER NORMAL TEMPERATURES AND PRESSURES.

================= Toxicological Information

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Toxicological Information:INHALATION: ACUTE EXPOSURE: NO SPECIFIC DATA VAILABLE. INSOLUBLE MOLYBDENUM COMPOUNDS ARE CHARACTERIZED BY LOW TOXICITY. CHRONIC EXPOSURE: 25 ONE-HOUR EXPOSURES TO 490 MG/M3 CAUSED NO EFFECTS IN ALL T HE ANIMALS TESTED EXCEPT ONE WHICH DIED AFTER THE THIRD EXPOSURE. SKIN CONTACT: ACUTE EXPOSURE: DERMATITIS HAS NOT BEEN REPORTED IN EXPOSED WORKERS. EYE CONTACT: ACUTE EXPOSURE: NO SPECIFIC DATA AVAIL ABLE. SOME INSOLUBLE MOLYB DENUM

COMPOUNDS ARE IRRITATING TO THE EYES. INGESTION: CHRONIC EXPOSURE: RATS FED UP TO 500 MG DAILY FOR 44 DAYS SHOWED NO TOXIC SIGNS & ALL GAINED WEIGHT.

Ecological:ACUTE AQUATIC TOXICITY: TEST CONDUCTED IN 1990 AT LEVELS UP TO 750 MG/L POWDERED MOS2 RESULTED IN 0 MORTALITY TO RAINBOW TROUT (SALMO GAIRDNERI).

Waste Disposal Methods:OBS

ERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS WHEN DISPOSING OF THIS SUBSTANCE.

Transport Information:NO CLASSIFICATION CURRENTLY ASSIGNED.

SARA Title III Information:SARA SECTIONS 302, 304, 313: NO. Federal Regulatory Information:TSCA INVENTORY STATUS: Y. TSCA 12(B) EXPORT NOTIFICATION: NOT LISTED. CERCLA SECTION 103 [40 CFR 302.4]: N. State R Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent pro fessional advice to verify and assume responsibility for the suitability of this information to their particular situation.